

STUDIES IN THE EUPATORIEAE (ASTERACEAE). LXXXVI.

ADDITIONS TO THE GENUS, NEOCUATRECASIA.

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In an earlier paper (King & Robinson, 1970) four Eupatorian species from Peru and Bolivia were placed in a new genus, Neocuatrecasia. The genus showed much resemblance to species of Ageratina having narrow tubular bases on the corolla, similar carpodia and papillose inner surfaces of the corolla lobes. The genus differed strikingly by the hairy style bases and the transversely annulate thickenings in the cells of the anther collars. A further indication of relationship is now provided by the species of Neocuatrecasia described below which resembles Trichogonia. The latter genus is similar in habit and also has the long slender achene bases seen in Neocuatrecasia, but it differs in the presence of plumose pappus setae and by the lack of hairs on the base of the style. Actual relationship of Neocuatrecasia does seem closer to Trichogonia and the Gyptoid series though the style base is unlike any of the series.

The purpose of the present paper is to add two species to the genus Neocuatrecasia, one species being previously undescribed. The six species now known for the genus can be distinguished by the following key.

1. Leaves sessile; about 20 fragile pappus setae very slender, not contiguous at base
N. sessilifolia
1. Leaves distinctly short petiolate; 25-30 persistent pappus setae nearly contiguous at the base
2.
 2. Leaves broadly ovate to cordate with large teeth or lobes; 3.
 2. Leaves narrowly ovate to elliptical with small serrations; 4.
3. Leaves coarsely toothed; achenes scabrous on the angles; corolla lobes with many hairs on the outer surface
N. dispar

3. Leaves deeply lobed; achenes distinctly setiferous; corolla lobes with few or no hairs on outer surface
N. lobata
4. Throat of the corolla rather indistinct, not or scarcely longer than the basal tube; pappus setae shorter than achene
N. mancoana
4. Throat of corolla distinctly longer than basal tube; pappus setae mostly longer than achene
5.
5. Heads with ca. 50 flowers; petioles 3-7 mm long
N. weddellii
5. Heads with ca. 30 flowers; petioles 1-3 mm long
N. thymifolia

The species previously known for the genus include: N. dispar (B.L.Robinson) R.M.King & H.Robinson, Peru, Dpt. Cusco; N. lobata (B.L.Robinson) R.M. King & H.Robinson, Bolivia, Dpt. La Paz; N. mancoana (B.L.Robinson) R.M.King & H.Robinson, Peru, Dpt. Cusco; N. thymifolia (Britton) R.M.King & H.Robinson, Bolivia, Dpt. La Paz.

The following two species are added to the genus.

Neocuatrecasia sessilifolia R.M.King & H.Robinson, sp. nov. Frutices erecti vel suberecti ca. 3 dm alti, multo ramosi. Caules teretes glandulis longiuscule stipitatis dense obsiti. Folia opposita sessilia anguste oblonga 2-4 cm longa 5-10 mm lata obtusa margine serrulata basi subauriculata elongate reticulato-venosa, utrinque in nervis et nervulis glandulis longiuscule stipitatis dense obsita supra etiam breviter pilosa subtus etiam glandulo-punctata. Inflorescentiae dense corymbosae, pedicellis 5-15 mm longis, pedicellis et squamis exterioribus extus glandulis stipitatis dense obsitis. Capitula 9-10 mm alta ca. 10 mm lata, floribus ca. 40; involucri squamae ca. 20 subimbricatae inaequilongae ca. 3-seriatae oblongo-ellipticae acutae 3-7 mm longae; corollae inferne anguste tubulares superne anguste infundibulares, tubis 1.0-1.5 mm longis extus glanduliferis, limbis 2.0-2.5 mm longis, lobis brevibus late triangularibus extus glanduliferis ad apicem et intus papillosis; filamenta antherarum in parte superiore ca. 300 μ longa, parietibus valde

transverse annulate ornatis, thecae ca. 1.0 mm longae basi cuneatae, appendicibus non longioribus quam latioribus; styli inferne non nodulosi hirsuti, appendicibus longe incrassatis dense papillosis; achaenia anguste stipitata in costis breviter multo-setifera; carpodia breviter subcylindrica, cellulis subquadratis, parietibus tenuis firmis; pappi setae ca. 20 fragiles inferne tenues subintegrae non contiguae superne valde scabrae. Grana pollinis ca. 25 μ diam., spinis brevibus.

Type: PERU: Junin: Huancayo; alt. 4000 meters. March 1947. J. Soukup 3146 (Holotype US !). Paratype PERU: Concepcion: Ingenio. February 1948. J. Soukup 3658 (US!)

Neocuatrecasia weddellii (B.L.Robinson) R.M.King & H. Robinson, comb. nov. Eupatorium weddellii B.L. Robinson, Contr. Gray Herb. n.s. 77: 44. 1926. near Quiaca, Prov. Carabaya, Dpt. Puna, Peru.

Reference

King, R.M. & H.Robinson 1970. Studies in the Eupatorieae (Compositae). XXXII. A new genus, Neocuatrecasia. Phytologia 20: 332-333.

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